# . ATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY	PCI				
To: UMICORE Patent Department Attn. Knockaert, Guy	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION				
Kasteelstraat 7 B-2250 Olen BELGIUM					
BELGIUM	(PCT Rule 44.1)				
	Date of mailing (day/month/year) 23/09/2004				
Applicant's or agent's file reference	FOR FURTHER ACTION See paragraphs 1 and 4 below				
International application No. PCT/EP2004/006238	International filing date (day/month/year) 08/06/2004				
Applicant					
UMICORE	ab concit and the written onlinion of the international Searching				
1					
acts for entry into the national phase before those designated in respect of other designated Offices, the time limit of 30 mc	Offices.  onths (or later) will apply even if no demand is filed within 19				
See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO internet site.					
Name and mailing address of the international Searching Author European Patent Office, P.B. S818 Patentiaan 2 N.L2280 HV Rijawlik Tel. (431-77) 340-2040, Tx. 31 551 epo nl, Faz: (431-7) 340-3016	Authorized officer  Véronique Baillou				

(See notes on accompanying sheet)



#### NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Petert Cooperation Trasty, the Regulations and the Administrative Instructions under that Treaty, in case of discrepancy between these holes and those requirements, the later are applicable. For more detailed internation, see date the PCT Applicant's Guide, a publication of WIPO.

in these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative instructions respectively.

# INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and developing the animal during the international periminary examination processors, there is usually need to be admitted the claims under Article 19 except where, e.g., the applicant wants the latter to be published to the purpose at provisional proteition or has another reason for amending the claims before international proteinional proteinion or has another reason for amending the claims before international proteinional proteinion or has another reason for amending the claims before international proteinions.

### What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further emended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phases, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

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Within 2 months from the date of transmitted of the international search report or 16 months from the priority data, wholever time limit appress later. It should be noted, however, that the amendments will be considered a having been received on time if they are movived by the International Breass after the experience of the applicable time limit but before the completion of the technical preparations for international practical (Figure 45.1).

#### Where not to file the amendments?

The amendments may only be fised with the International Bureau and not with the receiving Office or the International Searching Authority (Pute 45.2).

Where a demand for international preliminary examination has been in filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as fied.

A replacement sheet must be submitted for each sheet of the claims which, on account of an anvendment or amendments, differs from the elsest originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required, in all cases where claims are neutroneed; they must be renumbered connectatively (Antimientative instructions, Section 2014).

The amendments must be made in the language in which the international application is to be published.

#### What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The latter must be in English or French, at the choice of the applicant, However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the later must be in French.

Notes to Form PCT/ISA/220 (first about) (January 1994)

### NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the strematicnal application (it being understood that identical indications concerning several claims may be proposely whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

#### ples likustrate the manner in which amendments must be explained in the The following exam accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
  "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers;
  claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- 3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding

"Claims 1 to 6 and 14 unchanged; claims 7 to 13 canceled; new claims 15, 16 and 17 added," or "Claims 7 to 13 canceled; new claims 15, 16 and 17 added; all other claims unchanged."

[Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by claim 14; claim 17 auticitied into amended claims 15, 16 and 17; new claims 20 and 21 added."

#### "Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the latter indicating the differences between the claims as field and as amended. It must be filed on a separate afreet and must be identified as such by a heading, preferably by using the words "Statement under Action 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of obtaining contained in that report. Reference to distorint, relevant to a given claim, contained in the international search report may be made only in consection with an amendment of that claim.

### nce if a demand for international preliminary examination has already been filed

If, at the time of Sing any emerchments under Article 19, a demand for international preliminary examin-has already been submitted, the applicant must preferably, at the same time of Sing the amendments we international Bureau, also like a copy of such amendments with the International Preliminary Examining Authority (see Public 22(a), fast sentence).

### sequence with regard to translation of the international application for entry into the national phase

The applicant's stention is crawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's

Notes to Form PCT/ISA/220 (second aheat) (January 1994)

### PATENT COOPERATION TREATY

# **PCT**

### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER  ACTION  as we	see Form PCT/ISA/220  Il as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/EP2004/006238	08/06/2004	04/07/2003
Applicant		
UMICORE	-	
This international Search Report has been according to Article 18. A copy is being tra	n prepared by this International Searching Au ansmitted to the International Bureau.	ithority and is transmitted to the applicant
This international Search Report consists	of a total of sheets.	
X it is also accompanied by	a copy of each prior art document cited in th	is report.
language in which it was filed, un	international search was carried out on the bless otherwise indicated under this item.	1
this Authority (Ru	ile 23.1(b)).	station of the international application furnished to
b. With regard to any nucle	otide and/or amino acid sequence discloss	d in the international application, see Box No. I.
2. Certain cialms were for	and unsearchable (See Box II).	
3. Unity of invention is less	sking (see Box III).	
4. With regard to the tittle,		
	ubmitted by the applicant.	
the text has been establi	shed by this Authority to read as follows:	j
-		
-		
5. With regard to the abstract,	t and the state of	
	submitted by the applicant.	nority as it appears in Box No. IV. The applicant
may, within one month t	rom the date of mailing of this international s	earch report, submit comments to this Authority.
6. With regards to the drawings,		9
	published with the abstract is Figure No	
as suggested by	the applicant.	
	his Authority, because the applicant failed to	
	his Authority, because this figure better char-	acterizes the invention.
b. X none of the figures is to	be published with the abstract.	
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Form PCT/ISA/210 (first sheet) (January 2004)

### INTE 'ATIONAL SEARCH REPORT

Application No

			PC'	T/EP2004/	006238
A. CLASSIFI IPC 7	CATION OF SUBJECT MATTER C22B19/04 C22B19/34 C22B5/7 C22B13/02	10 C:	2285/12	C22B5/	16
According to I	intametional Patent Classification (IPC) or to both national classification	fication and IPC			
B. FIELDS S	EARCHED	etion cumbole)			
Minimum doc IPC 7	umentation saarched (classification system followed by classific C22B	anon symbols;			
			-		
Documentation	on searched other than minimum documantation to the extent the	at such docume	nts are included	in the fields sear	ched
Electronic dat	te base consulted during the international search (name of data	base and, who	ere pracilcal, sea	ch terms used)	
	ernal, COMPENDEX				
	NTS CONSIDERED TO BE RELEVANT				Ralevant to claim No.
Category *	Citation of document, with indication, where appropriata, of the	relevant passa	iges		
A	HEARD R ET AL.: "Recycling of Zinc-Bearing Residues with the	PRIMUS			1-12
	Process" IRON STEELMAKER I AND SM, vol. 30, no. 4, April 2003 (200 pages 55-60, XP009020220	03-04),			
2	the whole document				
A	ESNA-ASHARI M ET AL: "SMELTING REACTOR FOR RECOVERING ZING FROM INDUSTRIAL LOW ZING BEARING RESIDUES" ERZMETALL, RIEDERER VERLAG GMBH. STUTTGART, DE, vol. 53, no. 6, 2000, pages 373-384,			1-12	
	XP000959985 ISSN: 0044-2658 * Figure 1; pages 374-375 *	,			
		-/			
X Furt	har documents are listed in the continuation of box C.	X	Patent family me	mbers are listed	in annex.
	stegories of cited documents:	'T' later	document publis	had after the inte	arnational fiting date the application but eory underlying tha
*A* docum	ent defining the general state of the art which is not dered to be of particular relevance	itive	ention		
'E' earlier	document but published on or after the international	"X" docu	ment of particula not be considere	r relevance; the d novel or canno	claimed invention of the considered to ocument is taken alone
"L" docum	ent which may throw doubts on priority claim(s) or its citad to establish the publication date of another on or other special reason (as specified)	"Y" docu	ment of particula	or relevance; the	ctained invention nventive step when the lore other such docu-
*O* docum	nent reterring to an oral disclosure, use, exhibition or	me	nus, such combie	ed with one or mation being obvi	none other such docu- ous to a person skilled
*P' docum	means sent published prior to the international filing date but than the priority date claimed	in t	ha art. Iment member o		
	ectual complation of the international search	Date	e of mailing of the	e international se	arch report
	15 September 2004		23/09/20	104	
Name and	mailing address of the ISA	Aut	horized officer		
	European Patent Office, P.B. 5818 Patentilaan 2 NL - 2280 HV Rilgowijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016		Bjoerk,	P	

## INTER ATIONAL SEARCH REPORT

Internz I Application No PCT/Er2004/006238

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category * C	on) DOCUMENTS CONSIDERED TO BE RELEVANT Castion of document, with indication, where appropriate, of the relevant pessages	Relevant to claim No.
A D3	WO 98/36102 A (BUCKETT GRAHAM ALAN ;BUKA TECH PTY LTD (AU); FOUNTAIN CHRISTOPHER) 20 August 1998 (1998-08-20) * page 20, 1ines 13-29 *	6
<b>Д</b> ч	DATABASE COMPENDEX 'Online! ENGINEERING INFORMATION, INC., NEW YORK, NY, US; DE SCHEPPER A: "Liquid-liquid extraction of germanfum by LIX-65" XP002260042 Database accession no. EIX78110005759 abstract & CHLORIDE HYDROMETALL, INT SYMP, PROC, 26 September 1977 (1977-09-26), - 28 September 1977 (1977-09-26), - 28 September 1977 (1977-09-28) pages 357-384,	7
A D5	Brussels, Belgium  GB 2 094 772 A (SAMIM SOC AZIONARIA MINERO MET) 22 September 1982 (1982-09-22)	1-12
36	* page 1; lines 78-97 * US 6 379 421 B1 (GUERRA-REYES MARIA TERESA ET AL) 30 April 2002 (2002-04-30) * Figure 1; column 3, lines 34-56 *	1-12
^24	US 4 415 540 A (WILKOMIRSKY IGOR A E ET AL) 15 November 1983 (1983-11-15) cited in the application the whole document	1-12

# INTER 'ATIONAL SEARCH REPORT

Internation on patent family members

Interny & Application No PCT/EP2004/006238

	itent document I in search report		Publication date		Patent family member(s)	Publication date
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